

A CATALOGUE OF THE BIRDS IN THE COLLECTION OF THE BOMBAY NATURAL HISTORY SOCIETY—21

Sturnidae

HUMAYUN ABDULALI

[Continued from Vol. 73(3):515]

530 specimens of 42 species and subspecies up to No. 1018 in INDIAN HANDBOOK and registered No. 24315 are covered by this part.

984 **Saroglossa spiloptera** (Vigors) (Himalayan Mountains, restricted to Simla-Almora)
Spottedwinged Stare 3:25

29: 16 ♂♂ (1 juv.), 11 ♀♀ (1 juv.), 2 ♂? juv.
6 Bhagat State, N.W. Himalayas, 3 Lohaghat, Almora; 2 Jalai, Guptakashi, 1 Karuprayag, Garhwal; 4 Dehra Dun; 2 Margherita, 1 Longview T.E., Pankabari, 6 Cachar; 2 Jade Mines, Tawman; 1 Tunkomaw, Prome Dist.; 1 Kungawk, Henzada, Burma.

In both sexes there are some differences in the extent of grey mottling on the head and upperparts, specimens from Dehra Dun and westwards appearing paler than those from Assam and Burma. However, all the pale birds (in worn plumage) are dated between 4 April and 3 July, while the others are 20 Nov. to March, suggesting that the dark birds are all in fresh plumage. Among the males there is considerable variation in the amount of rufous on the underparts.

INDIAN HANDBOOK (5:148) queries the juvenile plumage of the male and female being different. The juvenile ♂ (No. 6612 Dehra Dun 18 June 1910) in which the bill is not yet fully grown agrees with Marien's (1950, *JBNHS* 49:472 *et seq.*) description, except that the streaking on the throat is very restricted possibly due to the manner of skinning. The plumage is generally like that of the adult male but lacks the dark chin and rich rufous of the

underparts; the upperparts are as in the adult female but grading into rufous on the lower back and rump. The legs and feet are now paler yellow than in the juvenile females *contra* dark in adults of both sexes.

Specimen 17657 (Bhagat State, 25 June) is marked "Juv. ♀" by A. E. Jones and is similar to two unsexed birds from Lohaghat, Almora, also marked young. They differ from the adult females in being slightly paler all over and with the spotting on the throat and upperbreast replaced by faint streaking. The upperwing coverts have pale edges.

The extent of rufous and white on the underparts varies in different males and the adult plumage is perhaps attained after more than one moult.

Measurements on p. 381.

Though males average slightly larger, the measurements are not exclusive.

985 **Aplonis panayensis affinis** (Blyth) (Tipperah) Tipperah Glossy Stare 3:24
1 ♀ Rewa Tea Estate, Lakhimpur, S. Sylhet.
Measurements on p. 381.

986 **Aplonis panayensis tytleri** (Hume) (Andamans) Andaman Glossy Stare 3:23
14: 8 ♂♂ (3 imm.) 5 ♀♀ 1 ♂?
1 Mannarghat, 1 Wimberleygunj, 1 Maymyo, 1 Long I., 1 South Andamans; 9 Car Nicobar.
Measurements on p. 381 under No. 985/6a.

986a **Aplonis panayensis albiris** Abdulali
(Great Nicobar) Great Nicobar Glossy Stare
21: 12 ♂♂ (5 imm.) 9 ♀♀ (6 imm.)

2 Camorta, 10 Nancowry, Central Nicobars; 9
Campbell Bay, Great Nicobar.

In both 986 and 986a, the females in series
show less gloss on the underparts. Some of
them (♂♂ 23205 Andamans, 22415 Nan-
cowry, 22403 and ♀ 22422 Great Nicobar)
have the chin and upper breast almost com-
pletely dark.

Measurements on p. 381 under No. 985/6a.

987 **Sturnus malabaricus malabaricus**
(Gmelin) (Malabar Coast, as migrant) Grey-
headed Myna 3:39

27: 12 ♂♂ 9 ♀♀ 6 o?

1 Kihim, Kolaba, Maharashtra; 1 Maraiyur, Tra-
vancore; 1 Robinson's Park, Madras; 1 Cumbum
Valley, 2 Godavary Delta, 1 Sankrametta, Vizaga-
patam; 1 Barkul, Chilka Lake, 1 Bumt (?), Bala-
sore, Orissa; 1 Rajputtee, Saran, Bihar; 2 Gorakh-
pur, 1 Ganai, Almora, 3 Naini Tal; 2 Bankulwa
Morang, Nepal; 1 Naunati, 24-Parganas, Bengal;
1 Bagho-Bahar, 2 Dibrugarh, 2 Tezu, Lohit Valley,
Upper Assam; 1 Lanang, N. Cachar, 1 Dinapur
Road, Manipur; 1 *Akyab, Burma*.

Measurements on p. 381.

988 **Sturnus malabaricus blythii** (Jerdon)
(Malabar) Whiteheaded Myna 3:40

26: 15 ♂♂ 10 ♀♀ (3 juv.) 1 o?

1 Ajwa, Baroda, 1 Bulsar; 1 Tulsi, Bombay, 1
Shil, Thana, 4* Ratnagiri; 2 Karwar, 1 Alanki, 1
Santgal, 1 Gundbala, 1 Gotegali, 2 N. Kanara; 1
Telguppa, 1 Lingadelly, Sagar, 1 Jagan Valley,
Kadur, 2 Gudalur, Nilgiris, 1 Wynaad, 2 Thekadi,
1 Tenmalai, 1 Kotathrupali, Travancore. (*1 ♂
missing).

Measurements on p. 381 under 987¹.

989 **Sturnus malabaricus nemoricola** (Jer-
don) (Thayetmyo, Upper Burma) Whitewinged
Myna 3:42

13: 3 ♂♂ 2 ♀♀ 8 o? (1 juv.)

¹ Some notes on this and other subspecies are in-
corporated in a separate contribution (*in press*).

2 Kaming, Upper Burma, 1 Toungyi, S. Shan
States, 1 near Mindon Chaung, Thayetmyo district,
1 Kyethe, 1 Pakkaing, 1 Prome, Prome district, 4
Pegu, 2 Ataran, Burma.

Measurements on p. 381 under 987.

990 **Sturnus erythropygius andamanensis**
(Tytler) (Andamans) Andaman Whiteheaded
Myna 3:41

4: 2 ♂♂ 2 ♀♀

1 Long Island, 1 Bakultala, Middle Andamans;
1 Wrightmyo, 1 Chirria Tapoo, S. Andamans.

These specimens have been measured and
commented upon in my Nicobar paper
(*JBNHS* 64, pp. 179-180).

991 **Sturnus erythropygius erythropygius**
(Blyth) (Car Nicobar) Nicobar Whiteheaded
Myna 3:41

5: 3 ♂♂ 2 ♀♀ All Car Nicobar

Measurements as under 990.

992 **Sturnus erythropygius katchalensis**
(Richmond) (Katchal, Nicobars) Katchal
Whiteheaded Myna 3:42
nil.

993 **Sturnus senex** (Bonaparte) (Ceylon)
Ceylon Whiteheaded Myna 3:46
nil.

994 **Sturnus pagodarum** (Gmelin) (Mala-
bar) Blackheaded or Brahminy Myna 3:47
36: 20 ♂♂ (2 imm.) 14 ♀♀ (1 imm.) 2 o?
(imm.)

5 Chitral, N.W.F.P.; 1 Shikohpur, Jullunder; 3
Bhagat State; 1 Kishtwar, Kashmir; 3 Delhi, 4
Bharatpur; 1 Pali, Jodhpur; 1 Kharirohar, 1 Kuar-
bet, Kutch; 1 Gir, 1 Nadiad, 1 Dediapada, Raj-
pipla; 1 Santa Cruz, Bombay, 1 Kihim, Kolaba, 1
Panchgani, 1 Satara, 1 Ratnagiri; 1 N. Kanara; 1
Cassimode, Kerala; 1 Palkonda Hills, 1 Seshacha-
lam Hills; 1 Bulandshar, 1 Bareilli, 1 Kumaon &
Naini Tal dist., U.P.; 1 Mowli?

There is considerable variation in the grey
of the upperparts and the rufous below; the
birds from Chitral Drosh going back to April/
May, 1902/3 are the palest above and may
be of the pale form *afghanorum* described by

Koelz. But though in addition, the northern birds measure slightly larger than the southern, the seasonal movements of the species are not yet understood and the material available does not permit any definite opinion.

Measurements on p. 382.

995 *Sturnus sturninus* (Pallas) (Dauria) 3:43
Dauria Myna

1 o? Pegu, Burma (C. W. Allan) Wing 110; bill 15.3; tail 52.

996 *Sturnus roscus* (Linnaeus) (Lapland, Switzerland) Rosy Starling 3:29

55: 36 ♂♂ (5 juv.) 16 ♀♀ (4 juv.) 3 o? (1 juv.)

1 *Felujah*, Iraq; 1 *Kasvin*, Persia; 2 *Kornah* (*Pelar*), 180 m. sw of Kalat, 8 Mastang, 1 Ziarat, Baluchistan; 2 Peshawar, N.W.F.P.; 1 Multan, 1 Pipli, Karnal, Punjab; 3 Delhi, 1 Bharatpur, 1 Bhujia, 1 Kharirohar, 1 Kuarbet, 1 Chotari, Kutch; 1 Radhanpur, 1 Bhavnagar, 1 Nadiad, 1 Vagjipur, 1 Ajwa; 1 Borivli, 3 Santa Cruz, 2 Bandra, 1 Byculla, 1 Bombay, 1 Kaneri I.; 1 Satara; 1 Saugor, M.P.; 1 Karwar; 1 Pt. Calimere, T.N.; 1 Chilka, 1 Attegarh, 1 Tigeria, 2 Khanar, Pal Lohara, Orissa; 2 Baghowni, 1 Jamiya, Darbhanga, Bihar; 1 Kallianpur, Kanpur, U.P.; 3 no data.

The typical pink on the upper back and rump is only visible in specimens taken in June/July/August and then reappears in March/April, those taken in the intermediate period having their backs sullied by the brown tips to the feathers which look very much as if due to staining. According to BRITISH HANDBOOK, 1945, (1, p. 47) this is due to the tips being worn off.

In addition to the difference in size (*q.v.*), the females are duller in colour, and most of them show all-brown feathers on the back, rather than pink with brown tips which hide the pink in the male.

Measurements on p. 382.

EL *Sturnus vulgaris vulgaris* Linnaeus
(Sweden) European Starling

22: details below:

(a) 1 o? Isle of Wight, U.K.

(b) 21: 9 ♂♂ 9 ♀♀ 3 o?

1 *Dohuk*, 3 *Bait-u-Khalifa*, 1 *Samara*, 3 *Baghdad*, 1 *The Narrows*, 16 m. n.e. of Kut, 2 *Magasin*, 6 m. e. of Kut, 2 *Sheikh Saad*, 1 *Felujah*, 1 *Sulaimaniya*, 1 *Amara*, Iraq; 1 *Shustar*, 2 *Katunak*, 8 m. and 2 *Pir-e-Banu*, 9 m. s. of Shiraz, Iran.

All obtained between 12 November and 11 March.

It must be mentioned at the outset that though the differences among the starlings have been discussed at length, and many subspecies have been described in the Palaearctic, it is impossible to identify all the specimens in widely differing plumages, some of which do not exhibit the characters on which they have been described. The material from Iraq and Iran has been particularly difficult, for in several instances the specimens are marked with one name and referred to in literature by another. Several under (b) above were marked *sophiae* by Ticehurst, who later cut this out and inserted "*vulgaris*" and in his subsequent reports (*JBNHS* 26: 382 and 28: 275) does not think them separable. The original description of *sophiae* refers to a purple head and a green eye patch. Of the 35 skins of 4 subspecies examined by Ticehurst, 25 are now available. All mentioned under (b) have purplish heads *contra* greenish in the single specimen under (a), and may well be included with *poltaratskyi* below.

The spotting in several is also much more prominent and displays a more whitish bird than in any other race, or exhibited in any of the coloured illustrations available of the nominate race. The identifying characters (or the differences) are mentioned in brief but it is not possible to be very certain of some of the identifications.

Measurements on p. 384.

EL *Sturnus vulgaris caucasicus* Lorenz
(Northern Caucasus) Caucasian Starling

4: 1 ♂ (juv.) 2 ♀♀ 1 o? (juv.)

1 Amara, Iraq; 1 Meshed, N. Persia; 1 Kangwai, Iran; 1 Mishun, Persian Gulf.

Adult female 6669 (Meshed, 23 February) has the head and ear-coverts greenish and the rest of the upperparts similar to those of *nobilior*. This appears to be a resident form in Iran and the two juveniles are included herein. The other ♀ No. 6682 from Amara, Iraq, was collected by R.E. Cheesman on 4 February, 1918 and though marked *caucasicus* by Ticehurst, the head is purple and only the ear-coverts slightly green (?). In the absence of any alternative, it is left here.

No. 6683 from Kangwai is the all-brown fledgling with a white chin and more white in the centre of the lower belly, as illustrated in European ornithological literature. The other is older and dark sooty all over spotted (except head and throat) buff above and white below, with the spots on the lower breast and belly being larger. The primary coverts are edged with rufous.

Measurements on p. 384.

997 *Sturnus vulgaris poltaratskyi* Finsch (Marka-Kul, Eastern Kazakhstan) Common Indian Starling 3:34

40: 16 ♂♂ (1 juv.) 20 ♀♀ (1 juv.) 4 o?

1 Mishin, Persian Gulf; 1 Wana, Waziristan; 1 Peshawar; 2 Kesun 4500', Chitral; 1 Campbellpur, 2 Rawalpindi, 1 Mianwali, 2 Jhelum, 1 Madhopur, 2 Shikohpur, Jullunder, 1 Chandigar, 2 Darazpur, 2 Ambala, 1 Dankuri, Karnal, 1 Mubarakpur, 1 Bahawalpur; 1 Bhagat State, Simla; 2 Delhi; 1 Shah Hasan, Manchar, Sind; 3 Santanwara, 1 Gwalior; 2 Sait, Kaira, 2 Rewana Tank, Jasdan; 4 Rewas, Kolaba, Maharashtra; 1 Tirhut, 1 Baghowni, Bihar.

The amount of purple following that of the head along the back varies to an appreciable extent; birds with spotted heads, November to January, appear to show less purple and more green.

Two from Jhelum (20 March 1897) have

dusky heads with no gloss and appear juveniles and their 125 and 127 mm wings appear too large to belong to *indicus*.

Measurements on p. 384.

998 *Sturnus vulgaris nobilior* Hume (Kandahar) Afghan Starling 3:34

7: 2 ♂♂ 3 ♀♀ 2 o?

2 Sheikh Saad, Iraq; 1 Sitarbo, 21 m. s.e. of Khwash, Persian Baluchistan; 1 Wano, Waziristan; 1 Chaman, Baluchistan; 1 Mianwali, Punjab; 1 Parjah, Bettial, Champaran, Bihar (?)

As in *poltaratskyi*, there is a purple head followed by green but both colours are brighter and the wing-coverts purple and not green. The spots on the upperparts are also white *contra* buff, smaller and less abundant and the under wing-coverts are darker with narrow white edges to each feather.

Hume described this with great enthusiasm but subsequent workers do not appear to have agreed. The male and female from Sheikh Saad have large 135 mm wings and of which the former (No. 6679) was named *caucasicus* by Ticehurst (loc. cit) though the label reads *nobilior*. All the other five of both sexes have their wings under 130 (125-129). Unsexed Sp. No. 6692 from Chaman, Baluchistan, is in the spotted phase but it has a purple head, green back spotted with white (?) and a little purple on the wing-coverts.

Sp. No. 6713 is marked as Parjah, Bettial and said to have been collected by F.J.R. Field on 16-2-1892. A Mr. Frank Field is included in the list of members of the Society for 1892, from Behar. If the place name is read as Bettiah in Bihar, and the identification is correct, this is a considerable extension of its presently accepted range.

Measurements on p. 384.

999 *Sturnus vulgaris porphyronotus* Sharpe (Yarkand) Central Asian Starling 3:32

10: 5 ♂♂ 3 ♀♀ 2 o?

2 Kiba Drosh, 2 Jinjoret, Chitral; 1 Campbellpur, 1 Jagadhri, 1 Madhopur, 2 Ambala; 1 Baghowni, Bihar.

These are distinguished by the greenish head followed by the all purple upperparts, including upper wing-coverts. The Baghowni specimen if correctly named extends the recorded distribution of the subspecies.

Measurements on p. 384.

1000 ***Sturnus vulgaris minor*** Hume (Larkana, Sind) Sind Starling 3:33
2 ♀♀

1 Dalipata, Hyderabad, 1 Audalbad, Sukkur, Sind.

Both (3rd March and 12th April) are in dark plumage and have yellow bills. The same remarks apply to all dated specimens (8) under 1001 *indicus* below, and which were obtained between 3rd March and 17th May. Ticehurst (*Ibis* 1922, p. 622) states that the winter spotting and the juvenile plumage are much the same as in the typical race.

Measurements on p. 384.

1001 ***Sturnus vulgaris indicus*** Blyth (Nepal) Kashmir Starling 3:31

10: 5 ♂♂ 3 ♀♀ 2 o?

2 Kupwara Road, 2 Srinagar, 2 Kashmir Valley, 4 Kashmir.

See remarks under 1000 above. No. 20607 (17th May) is sooty all over, with almost no gloss, presumably juvenile.

All the specimens have a greenish tinge on the ear-coverts.

Measurements on p. 384.

1002 ***Sturnus contra contra*** Linnaeus (Chandernagore, Hooghly District, W. Bengal) Indian Pied Myna 3:63

25: 16 ♂♂ 8 ♀♀ 1 o? imm.

2 Jagadhri, Ambala; 3 Bharatpur, Rajasthan; 1 Trombay, 1 Malad, Bombay; 3 Saugor, 1 Jubbulpore, 3 Geedam, Bastar, M.P.; 1 Nelipaka, Hyderabad, 1 Parvatipur, Vizagapatam; 1 Nilgiri, 2 Barkul, Chilka Lake, Orissa; 1 Baghowni, 1 Manjhaul, Bihar; 2 Meerut, 1 Manhofe, Terai, 1 Nawepur,

Nepal.

The upperparts of the females are browner than in the males.

The immature bird has a brown head contrasting with the already black feathers of the back and wings.

Measurements on p. 382.

1003 ***Sturnus contra sordidus*** Ripley (Sadiya, Northeastern Assam, Lohit Division, NEFA) Eastern Pied Myna

7: 2 ♂♂ 2 ♀♀ (1 juv.) 3 o?

1 Sadiya, 1 Tez, Lohit Valley; 2 Dibrugarh, Assam; 3 Upper Burma.

The two males from Sadiya and Lohit Valley are distinctly greyer below and have sepia-coloured (not whitish) streaks on the shoulders. Nominate *contra* do not show streaks on the nape as stated in the key in IND. HANDBOOK.

The female from Dibrugarh is not so distinctly different as the male and the three unsexed birds from Upper Burma though not separable from nominate *contra* are left here (?).

The juvenile has a brown head slightly darker than the back.

Measurements on p. 382.

1004 ***Sturnus contra superciliaris*** (Blyth) (Rangoon) 3:64

2 ♀♀

1 Hkamti, Myitkyina District, Upper Burma; 1 Henzada, Burma.

In both birds the back is very brown *contra* black head.

Measurements on p. 382.

1005 ***Sturnus sinensis*** (Gmelin) (China) Chinese or Greybacked Myna 3:37
nil.

1006 ***Acridotheres tristis tristis*** (Linnaeus) (Pondicherry) Indian Myna 3:53

51: 21 ♂♂ 26 ♀♀ (1 juv. 2 albinoid) 4 o? (1 juv.)

1 Ornach, Baluchistan; 1 Miranshah, N. Waziristan; 1 Chitral Drosh, 1 Pandach Valley, 1 Srinagar, 1 Kashmir Valley, 1 Lalroo, 2 Ambala; 6 Simla;

2 Bharatpur; 2 Kharirohar, Kutch; 1 Amreli, Gir, 1 Bodeli, Baroda; 1 Bhiwandi, 1 Mumbra, Thana, 1 Mulund, 1 Andheri, 1 Bandra, Bombay; 1 Konkan; 1 Karwar; 1 Cassimode, 1 Aramboli, 1 Trivandrum Beach; 1 Bhadrapur, 1 Talguppa, 3 Anandpurna, Sagar, Mysore; 1 Chitteri Range; 1 Nallamalalai Range; 1 Rajputtee, Saran, 1 Bhagowni, 1 Manjhaul, 1 Bairia, Patharghatta, Bihar; 1 Chamoli, Gharwal, 1 Rampur, 2 Kurseong; 1 Dibrugarh, 1 Goalpara, 2 Sadiya, Assam; 1 Wrightmyo, Andamans.

There is appreciable variation in the depth of the brown both above and below, and in the measurements, including the length and thickness of the bill, but it is not possible to localise any of these differences. The darkest birds from Kerala can be matched with specimens from Simla, but all the several specimens with paler underparts appear to be from the north and northwest, i.e. 1 Chitral, 2 Kharirohar, Kutch, 1 Bodeli, Baroda, 2 Bombay area. A ♂ No. 6834 from Aramboli, S. Travancore has the black of the neck and breast extending towards the abdomen in the centre grading towards *melanosternus* of Ceylon, as suggested by Vaurie (1959).

I recently (Oct. 1975) assisted Dr. A. J. Baker from Royal Ontario Museum in collecting a series of 20 males and 16 females around Bombay and the measurements of these birds are mentioned separately. The single ♀ from Wrightmyo, Andamans, where it was introduced in the 1850s, is the smallest. Though no separate subspecies is now accepted from Burma, it may be worth recalling that in *Ibis* 1868, p. 220 Blyth is quoted as referring to specimens from Port Blair, Andamans, being smaller and darker than those from Bengal and resembling those from Burma. The birds are said to have been introduced in the Andamans by Col. Tytler.

The collection includes two almost pure white specimens from Ambala, Punjab and Rajputtee, Saran, Bihar. No. 17697 from Simla

is pale brown all over with the head slightly darker, but not black. No. 6826 from Miran-shah, N. Waziristan is pale fawnish all over, with the head slightly darker, and whiter wings and tail. No. 17699 juv. ♀. Simla is dull brown with wings and tail largely white; the white stripes over the eyes meet at the nape, which is black as also the cheeks, creating a very distinctive effect.

After completion of these notes I saw R. K. Brooke's MORPHOLOGICAL NOTES ON *Acridotheres tristis* IN NATAL [Bull. B.O.C. 1976: 96 (1), pp. 8-13] in which he revives Hodgson's *Maina tristoides* (1836) holding that birds from peninsular India are paler and duller below and less reddish on the back than birds from Burma and Nepal. The differences are expressed in Ridgway's (1912) colours. We have no material from Nepal or Burma, but the variations in colour visible in the specimens available do not appear to support any definite colour change in that direction.

Measurements on p. 382.

1007 **Acridotheres tristis melanosternus**
Legge (Pasdun Korale, Ceylon) Ceylon Myna
3:55

1 ♀ Pasvala, W.P., Ceylon.

Measurements on p. 382.

1008 **Acridotheres ginginianus** (Latham)
(Gingee) Bank Myna
3:55

9: 4 ♂♂ (2 juv.) 4 ♀♀ 1 ♂?

1 Shikohpur, Jullunder, 1 Jagadhri, Ambala; 1 Delhi; 1 Kutch, 1 Ajwa, Baroda; 1 Ghoti, Nasik; 1 Saugar, M.P.; 1 Baghowni, Tirhut, Bihar; 1 Bulandshar, U.P.

There is some variation in the tone of grey on the upperparts but the number available is insufficient to warrant any remarks. The juvenile male from Baghowni, Bihar (24 November) has its head a paler brown than in the other from Ajwa, (2 November Baroda) and which is generally browner on the back

and wings. Both have whitish chins which immediately separate them from the adults.

Measurements on p. 383.

1009 **Acridotheres fuscus fuscus** (Wagler) (Sikkim) Northern Jungle Myna 3:57

13: 6 ♂ 7 ♀.

1 Rawalpindi, Punjab; 2 Solon, Simla Hills; 2 Supkar, Balaghat, M.P.; 1 Tigeria, 1 Beriberi, Puri, Orissa; 2 Baghowni, 1 Madhubani, Bihar; 1 Mussoorie, U.P.; 2 Calcutta Market.

All three races have been arranged largely on the basis of the distribution in INDIAN HANDBOOK, but none of them appear to be very easily separable. Except for two from Tigeria, Orissa and Mussoorie, all the above have paler underparts which are more distinctive than any other character.

Measurements on p. 383.

1010 **Acridotheres fuscus mahrattensis** (Sykes) [the Ghats (near Poona)] Southern Jungle Myna 3:57

15: details below.

(a) 6: 4 ♂ 2 ♀

1 Raita, Kalyan; 1 Kihim, Alibag, Kolaba; 4 Ratnagiri.

(b) 9: 6 ♂ 3 o?

1 Karwar, N. Kanara; 2 Hirebhasakar, 1 Lingadhally, Sagar, Mysore; 4 Shembaganur, Palnis; 1 Travancore.

Birds in group (a) are slightly paler, both above and below, than those from North Kanara and southwards, some of the latter being barely separable from *fumidus*, except for the browner upperparts of the former.

Measurements on p. 383.

1011 **Acridotheres fuscus fumidus** Ripley (Sadiya, N.E. Assam) Eastern Jungle Myna 9: details below.

(a) 3 ♂ 4 ♀ (2 juv.)

1 Goalpara, 1 Sadiya, 1 Tezu, Lohit Valley; 2 Margherita, Dibrugarh, 1 Assam, 1 Upper Burma.

(b) 1 ♂ 1 ♀

1 Prome, 1 Ataran, Amherst, Burma.

Wing ♂ 122, ♀ 121

The specimens date back to 1913 and 1929 but compared with older specimens under (a), show more brown tending towards *mahrattensis*.

Measurements on p. 383.

1012 **Acridotheres javanicus infuscatus** (Baker) (Lower Chindwin, Burma) Orange-billed Jungle Myna 3:59

3: 1 ♂ 2 o?

1 Myitkyina, 1 N. Shan State, 1 Yawmyo, Pakokku, Magye district, Burma.

These were listed under *A. fuscus*, but lack the dark patch (blue in life?) at the base of the bill, are darker both above and below and also larger than the nearest race of *fuscus* i.e. *fumidus* (No. 1011 above).

Measurements on p. 383.

1013 **Acridotheres albocinctus**: Godwin-Austen & Walden. (Manipur Valley). Collared Myna 3:60

3: 2 ♂ 1 o?

1 Moirang, Manipur; 1 Kamaing, Myitkyina, 1 Maymyo, Burma.

The smaller male (also the unsexed bird) is browner above and duller below than the larger.

Measurements on p. 383.

1014 **Mino coronatus** (Blyth) (Tenasserim) Goldcrested Myna 3:44

nil.

EL **Sturnus cineraceus** Temminck (Japan) Grey Starling

1 o? Kamaing, Myitkyina, Burma (H. H. Harrington 10 Feb. 1901).

Wing 131 (122-132), bill — (23-25); tail 64 (61-65).

EL **Sturnus burmannicus burmannicus** (Jerdon) (Thayetmyo, Upper Burma) Vinous-breasted Starling 3:50

7: 2 ♂ 3 ♀ 2 o? (1 juv.)

2 Shwebo, 1 Pakokku, 2 Prome, 2 o?

Unsexed Sp. No. 23977 with no data, has the white head and throat of the adult replaced

by a rufous which suggests a stain but is said to be the plumage of the juvenile. Its bill however is noticeably longer than in the others—23.5 mm cf. 19.5-21.8 av. 21.

The two without data, viz. one with the longer bill, and the other collected by J.P. Cook, both have their underparts slightly darker than in the others.

EL ***Sturnus nigricollis*** (Paykull) (Canton, China) Blacknecked Myna 3:49

4: 1 ♂ * 2 ♀ ♀ 1 o? (juv.)

1 *Shwebo*, 2 *Maymyo*; 1 *Nangpens*, N. Shan States.

Wing 153, 157 *158 (150-159); bill 27.5, 28.6, 29.5* (29-30); tail 83, 89, *92 (87-91).

1015 ***Gracula religiosa intermedia*** A. Hay (Cachar) Northern Hill Myna 3:19

9: 3 ♂ ♂ (1 juv.) 4 ♀ ♀ 2 o?

2 Bankulwa, Morang, Nepal; 1 Berrik, 600', Sikkim; 1 Margherita, Assam; 1 *Wuntbo* district, 1 *Thayetmyo*, 1 *Ataran*, 1 (?) *Burma*; 20 m west of *Meetaw*, 1 *Siam*.

See remarks under 1017.

Measurements on p. 384.

1016 ***Gracula religiosa indica*** (Cuvier) (S. India) Southern Hill Myna 3:17

17: 8 ♂ ♂ 6 ♀ ♀ 3 o?

1 Kumta, 2 Patoli, 2 N. Kanara; 1 Gamorthaghatta, 1 Lingadhally, Sagar, Shimoga district, Karnataka; 1 Kallar, 2500', 1 Honametti, 1 Gudalur, 5000', 2 Wynaad, Nilgiris; 3 Shambaganur, Palnis, 1 Thekaddy, 1 Balamore, Ashambu Hills, Travancore.

Measurements on p. 384.

1017 ***Gracula religiosa peninsularis*** Whistler & Kinnear (Sambalpur, Orissa) Eastern Hill Myna

4: 1 ♂ 3 ♀ ♀

1 Bastar; 1 Gomia, 1 Kutri, Daspalla, Orissa; 1 Bihar.

Some time back, at the instance of Dr. Ripley I had a look at these specimens and was unable to separate them from *intermedia* (No. 1015) above. As will be seen from the measurements on page 384 they are not separable

by size and do not differ in having a "finer" bill. The 4 specimens could be picked out by their "higher" and apparently shorter bills, but this impression is not substantiated by the measurements as taken.

1018 ***Gracula religiosa andamanensis*** (Beavan) (Andaman) Andaman Hill Myna 3:20

1: 4 ♂ ♂ 3 ♀ ♀

2 Betapur, M. Andamans; 1 Wrightmyo, 1 Chauldhari, 1 Port Blair; 2 Narcondam Island.

Measurements on p. 384.

See remarks (1976) *JBNHS* 71: 502 re. Narcondam specimens.

1018a ***Gracula religiosa halibrecta*** Oberholser (Little Nicobar Island) Nicobar Hill Myna

7: details below.

(a) 4: 2 ♂ ♂ 2 ♀ ♀ Great Nicobar

(b) 3: 1 ♂ 2 ♀ ♀ Central Nicobars.

1 Camorta, 1 Dening, 1 Nancowry.

In 1967 (*JBNHS* 64: 180-1) I accepted this race for its larger size and the lappets on the back of the head "being joined and bearing no feathered portion in between". This could perhaps be better expressed by saying that the *joint* of the lappets is some distance away from, and free of the feathered portion of the head *contra* flush with, and sometimes hidden by the feathers.

Specimens in Group (b) from Central Nicobars do not show this character and are larger than birds from the Andamans, approaching the two from Narcondam Island (see under 1018). Stuart Baker in *FAUNA* (3:20) refers to two specimens from South Andamans, in the British Museum, having very strong, coarse bills and being much nearer to *G. r. javana*. Without any material from Java and considering the curious fact that the species has not been recorded from Car Nicobar, no further remarks are possible.

Measurements on p. 384.

984 *Saroglossa spiloptera*

	Wing	Bill	Tail
Western ♂♂	109-114 av. 110	17.5-20.1 av. 19.3	55-60 av. 57.8
Eastern ♂♂	107-113 av. 109.5	17.9-19.3 av. 16.3	55-62 av. 58.5
(IH ex Marien	110-115	--	56-61)
Western ♀♀	101-112 av. 105.4	18.2-20.4 av. 19.3	54-61 av. 56
Eastern ♀♀	103-108 av. 105.6	18.2-19.2 av. 18.6	50-62 av. 56.6
(IH ex Marien	105-106		54-58)

985/6a *Aplonis panayensis affinis*, *A. p. tytleri*, *A. p. albiris*

	Wing	Bill	Tail
		from feathers	from nostril
<i>A.p. tytleri</i> ♂♂	118-120 av. 118.4	19-21.4 av. 19.9	14.4-15.6 av. 14.9
<i>A.p. tytleri</i> ♂♂ (imm.)	109,117,117	17,18.7,19	13.4,14,14.7
<i>A.p. albiris</i> ♂♂	115-121 av. 119	17.5-20.5 av. 18.8	13.5-15.6 av. 14.1
<i>A.p. albiris</i> ♂♂ (imm.)	109-121 av. 114	18.6-19.7 av. 19	13.5-15.2 av. 14.5
<i>A.p. affinis</i> 1 ♀	110	17.2	13.2
(IH ex Ticehurst ♂♀	106-113	—	—)
<i>A.p. tytleri</i> ♀♀	111-116 av. 113	18.19 av. 18.7	13.5-15.2 av. 14.3
<i>A.p. albiris</i> ♀♀	112,115,116	18,18.2,19.3	14,14.2,15
<i>A.p. albiris</i> ♀♀ (imm.)	103-108 av. 106	17.6-19.3 av. 18.1	13.5-15.2 av. 14.3
(♂♀	112-120	—	—)

987/9 *Sturnus malabaricus malabaricus*, *S. m. blythii* and *S. m. nemoricola*

	Wing	Bill	Tail
♂♂			
nominate northern (6)	100-102 av. 101*	17.5-18.7 av. 18	61-64 av. 62.5
„ southern (5)	101-103 av. 102	18.2-19.7 av. 18.5	61-65 av. 61.4
(IH 98-106		from skull 21-24	59-65)
<i>blythii</i> (12)	102-106 av. 104	19-21.8 av. 20.2	60-67 av. 63.5
(IH 96-107		from skull 23-24	62-67)
<i>nemoricola</i> (7)	98-103 av. 101.5	16-20	59-66 av. 62
(94-103		—	—)
♀♀			
nominate northern (4)	97-104* av. 100	17.19.5 av. 18.8	56,57,60,65*
„ southern	96,97,99	17,18,18.5	55,60,60
(IH 94-104		from skull 20-22	55-65)
<i>blythii</i>	100-104 av. 102.5	18.4-20 av. 19.3	60-64 av. 61.4
(IH 97-104		from skull 22-25	59-65)
<i>nemoricola</i> (5)	95-99 av. 96.3	16-17.2	57-61 av. 59.5
(IH ♂♀	94-103	—	—)

* The large male No. 6751 from Dibrugarh, referred to in the text is not included but females include No. 6771 from Tezu with the largest wing* and tail.*

994 *Sturnus pagodarum* (Gmelin)

		Wing	Bill	Bill from nostril	Tail
Northern ♂♂	(11)	104-112 av. 109.8	17-20.2 (18.1)	13.5-15.3 av. 14.2	65-71 av. 67.3
Southern ♂♂	(5)	102-104 av. 103.4	16.9-19.5 (18)	14.2-15.7 av. 14.7	62-66 av. 63.4
		(IH 99-112)	from skull 20-24	-	60-75)
Northern ♀♀	(7)	101-108 av. 106	18-20 (18.6)	13.5-15 av. 14.3	61-69 av. 65
Southern ♀♀	(6)	100-105 av. 102.6	16.6-17.5 (17.1)	12.1-15.1 av. 13.6	59-65 av. 63
		(IH 99-109)	from skull 20-21	-	58-68)

996 *Sturnus roseus* (Linnaeus)

	Wing	Bill	Tail
♂♂	127-138 av. 132.4	20-22.6 av. 20.7	62-76 av. 69.7
	(IH 125-136)	from skull 24-26	67-73)
♀♀	123-131 av. 126	19.3-23.5 av. 21.5	61-68 av. 64.7
	(IH 122-126)	from skull 22-24	65-72)

1002-4 *Sturnus contra* subsp.

	Wing	Bill	Tarsus	Tail
♂♂				
<i>S. c. contra</i>	117-125 av. 121	28.4-30.5 av. 29.3	30-32 av. 31.3	64-72 av. 67.4
	(IH 118-126)	from skull 30-35	32-35	63-75)
<i>S. c. sordidus</i>	118, 121	31 (2)	29,32	67
	(IH 116, 124)	from skull 33, 35	-	-)
♀♀				
<i>S. c. contra</i>	110-123 av. 118.6	27.3-30 av. 28.8	28-34 av. 31	62-72 av. 66
	(IH 114-120)	from skull 31-33	32-34	64-72)
<i>S. c. sordidus</i>	120	31.5	32	65
<i>S. c. superciliaris</i>	114 (2)	29.2, 30.6	28,30	62,67

1006-7 *Acridotheres tristis* subsp.

	Wing	Bill	Tarsus	Tail
♂♂				
<i>A. t. tristis</i>	139-153 av. 146.5	20.3-22.7 av. 21.4	34-43 av. 38.5	81-91 av. 87.3
Bombay (AJB)	138-147 av. 144.5	20.2-24.3 av. 22.1	—	83-96 av. 87.5
	(IH 138-153)	from skull 25-30	34-42	79-86)
♀♀	133-150 av. 141.5	20-24.4 av. 22.4	35-41 av. 38	72-96 av. 82.3)
1 Andaman	130	21	36	72
Bombay (AJB)	134-144 av. 139	19.4-23.9 av. 21.4	-	73-90 av. 85
	(IH 138-147)	from skull 25-28	35-41	79-86)
Dr. Baker weighed his specimens				
<i>melanosternus</i>	133	18.7	32	72

1008 *Acridotheres ginginianus*

	Wing	Bill	Tarsus	Tail
♂ ♂ (2)	117, 119	19.5 (2)	-	62, 64
(IH 118-129		from skull 24-25	-	65-74)
♀ ♀	120-124	19.5-21.3	-	65-73
(IH 114-123		from skull 24	-	60-71)

1009-11 *Acridotheres fuscus* subsp.

	Wing	Bill	Tarsus	Tail
♂ ♂				
<i>A. f. fuscus</i>	120-131 av. 125.6	19.5-22.5	30-35 av. 32.7	70-73 av. 71
(IH 122-130		from skull 26-28	-	72-76)
<i>A. f. mahrattensis</i> (a)	120-129 av. 125	20-20.2 av. 20.1	30-32 av. 31.5	69-75 av. 73.2
<i>A. f. mahrattensis</i> (b)	122-132 av. 126.8	20-21.2 av. 20.5	30-32 av. 31.5	69-82 av. 74.3
(IH 126-134		from skull 26-28	c. 36	73-79)
<i>A. f. fumidus</i>	(a) 118, 123 (2)	21.3, 21.6	32, 34, 35	72, 74, 75
(IH 4♂♂ 120-128		-	-	-)
(b) 122		21.7	32	63 (worn)
♀ ♀				
<i>A. f. fuscus</i>	115-126 av. 120	19.5-21.2 av. 20.5	31-35 av. 32.7	67-73 av. 70
(IH 120-125		from skull 25-27	-	67-75)
<i>A. f. mahrattensis</i> (a)	121, 130	19.5, 20	32 (2)	72, -
(IH 121-131		from skull 25-27	c. 36	70-78)
<i>A. f. fumidus</i>	(a) 124, 127	21.7, 22.6	34 (2)	71, 75
(b) 121		21	33	69

1012 *Acridotheres javanicus infuscatus*

1 ♂ 2o?	137, 139, 144	21.4, 23, 23.6	36, 36.4, 37.4	73, 81, 81
(IH 120-130		22-23	37-43	77-88)

1013 *Acridotheres albocinctus*

2 ♂♂ 1o?	135, 135, 131*	22.7, 23.5, 24*	33.5, 36.5, 34.3	72, 83, 73*
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1015-18a *Gracula religiosa* subspp.

	Wing	Bill	Tail
♂♂			
<i>G. r. intermedia</i>	167, 170, 171	25.7, 26.5	70, 80
(IH 166-176		from skull 31-32	75-85)
<i>G. r. peninsularis</i>	166	-	79)
(IH ♂♀ 150-165		from skull 29-31	72-74)
<i>G. r. indica</i>	138-146, 156, av. 144.3	23-26.5 av. 25	62-74 av. 66.5
(IH 139-155		from skull 29-32	55-72)
<i>G. r. andamanensis</i>	168 (2)-175 (2)	28.5, 28.6, 29.1, 30 (2)	71, 82-85
Central Nicobars	180	av. 29.2 30	87
<i>G. r. halibrecta</i>	171, 180, 182, 185	25.7, 20.5, 30, 30.4	86, 89 (2), 85
♀♀			
<i>G. r. intermedia</i>	160, 164, 165, 170	24.5, 25.5, 25.5	71, 77, 79, 81
(IH 163-169		from skull 31-33	80-84)
<i>G. r. peninsularis</i>	155, 164, 166	26.8, 26.7 (2)	72, 73, 74
(IH ♂♀ 158-165		from skull 29-31	72-74)
<i>G. r. indica</i>	136-149, av. 142	24-26.5 av. 24.8	60-66 av. 62
(IH 140-149		from skull 29-31	60-70)
<i>G. r. andamanensis</i>	163, 169, 170	28.5, 29, 30.5	78, 80, 86
Central Nicobars	170, 172	28.4, 29.2	78, 80
<i>G. r. halibrecta</i>	175, 180	29	84, 88

Sturnus vulgaris subspp.

	Wing	Bill	Tail
1 o? nominate <i>vulgaris</i>	137	27.2	64
(Br. Handbook ♂♀ 122-132		from skull ♂ 25-27 (one 28)	♂ 64-68)
♂♂ "sophiae" ?	130-136 av. 133.1	25.3-28.8 av. 27.1	61-65 av. 62.5
♀♀ "sophiae"	127-135 av. 130.6	25.9-28.5 av. 27	59-65 av. 61.4
♂♂ <i>poltaratskyi</i>	127-136 av. 131.3	24.5-27.6 av. 26.4	59-66 av. 63
(IH ex HW 125-135		from skull 28-32	62-69)
♀♀ <i>poltaratskyi</i>	125-134 av. 129	23.5-28.7 av. 26.6	57-65 av. 61.3
(IH ex HW 124-131		from skull 28-37	59-65)
♂♂ <i>nobilior</i>	128, 135	28.5, 29.2	64 (2)
(IH -		from skull 31-34	-)
♀♀ <i>nobilior</i>	125, 128, 135	28.5, 29	61, 65
(IH 127-134		from skull 31-34	-)
♀♀ <i>caucasicus</i>	127, 128	26.6, 27.7	63, 65
♂♂ <i>porphyronotus</i>	130-134 av. 132	26.2-30 av. 28	63-64
(IH 129-137		from skull 32-34	62-69)
♀♀ <i>porphyronotus</i>	126, 128, 129	26.6, 28, 28.2	59, 62
(IH 122-129		from skull 31-34	62-66)
♀♀ <i>minor</i>	111, 114	26, 26.1	55, 56
(IH 110-120		26-27	-)
♂♀ <i>indicus</i>	113-121	25-27.5	50-55
(IH 113-121		from skull 28-32	54-59)

(to be continued)